

SummaryABSTRACT

Disclosed is a Raman amplifier (10) comprising including at least one length of amplifying fiber (12) and at least a coupler (14) for coupling at least a first pump laser module (16) and a second (18) pump laser modules (18) to said Raman the amplifying fiber (12), the first pump laser module (16) comprising including a frequency discriminator (24) for selecting an optical frequency to be emitted with an optical power exceeding an optical power of remaining optical frequencies that are also emitted by said the first pump laser module (16). The first optical frequency is selected to be spaced apart from a local maximum (28; 36; 48) in optical power of said the remaining optical frequencies, and the second pump laser module (18) emits at an optical frequency one Stokes-frequency above the frequency of said the local maximum (28; 36; 48). The first optical frequency and the frequency of said the local maximum are chosen on Stokes-frequency above the signal frequency range. As a consequence, the Raman gain provided in the Raman amplifying fiber 12 is broadened.

OK To Enter 0192